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ž.		CLASSIFICATION SECRET/CONTROL-US OFFICIALS CENTRAL INTELLIGENCE AGENCY INFORMATION REPORT	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
25X1	COUNTRY	USSR (Caucasus) Aircraft Plant No. 51 in Tbilisi Return to CIA Library	DATE DISTR. 19 Oct. 1949 NO. OF PAGES 6 NO. OF ENCL CLISTED BELOW) 25X1 SUPPLEMENT TO REPORT NO.
	OF THE UNITE	THIS IS UNEV. THE CONTRAINS THE STATE OF THE EXPLOSION OF THE FORM OF THE PROPERTY OF THE PROPER	ALUATED INFORMATION
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		 Location: The Airframe Plant was locate edge of the town of TBILISI (44°53° E/41° north of the Kura River. Exact data relative to the plant install structed buildings will be forwarded law. Machinery: The plant was equipped with no dismantled German equipment was observed. Work force: 2,500 to 3,000 workers in cluding 50 percent women. There was a night shift. There were four holidays leading engineers were from the Ural ding the leading personnel spoke German. Inch employed in the plant. ** 	lations and newly con- ter. Soviet and US machinery; rved. the day shift, in- lso a much smaller per month. Soveral
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5. Production:

- a. The production of conventional fighters was discontinued in mid-1947. (in-line engine, two-bluded propeller; airframe same as that of turbo-jet fighter, see Annex 1).***
- b. The preparations for the production of a turbo-jet fighter were begun in early 1947.
- (1) Original Junkers turbo-jet power plants arrived at this time. Soviet-produced turbo-jet power plants (allegedly copies of the Junkers models) arrived by rail from an unidentified plant beginning early in 1948.
- (2) It was not ascertained when the first turbo-jet aircraft was flown. So information is available as to whether, in addition to the observed types (see Annexes 1 and 2), still other experimental models were built.
- (3) Beginning in early 1948, a monthly output of 150 to 200 turbo-jet aircraft was observed. Ø
- (4) A series of 300 to 400 single-seat fighters was first produced (see Annex 1); these aircraft were replaced by a two-scater version of the same type (see Annex 2).
- the armament of individual experimental models of the single-seat fighter consisted of four machine guns of an estimated caliber of the Garman type 17 machine gun and of two cannon of unknown caliber. (xxx)
- (6) Both types of aircraft were equipped with radio sets located aft of the pilot's seat; but the single-seat version had no antenna rod. (xx)
- (7) Lomb release slips, rocket rails, or devices for the installations of cameras were not seen.
- (3) Fuel tanks were mounted in the wings, a large fuel tank was located aft of the radio set.

5. Aircraft testing:

a. About 10 percent of the produced aircraft were flighttested and their armament was adjusted at the factory field located about three miles each of the plant. host of the manufactured aircraft were loaded on railroad oars without being subjected to acceptance flights. 80

b. Take-off ground run: about ten seconds; landing speed: about 130 mph; speed in level flight: 370 to 430 mph at an altitude of 2,000 to 2,500 feet. It seemed as if the aircraft were not flown at full power. Flying at maximum engine performance, at an altitude of 350 feet, the plane would soom after a short push on the stick, realing an altitude of about 3,500 feet at an angle of climb of 60° after performing from four to eight rolls. The planes were very maneuv with and flew surprisingly narrow curves. Both types of sircraft were, to a sumprising degree, insensitive to cross winds, which could easily be observed during frequent storms. Indurance was said to have been one and a half hours; the test flights never exceeded 30 minutes,

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c. The starting and stopping of the turbo-jet enline could not be observed from a sufficiently close vantage point.

d. The runway of the airfield was at least 5,000 feet long; the field had three hangars (total capacity about 25X1 ten planes) and an administration building. An engineer unit arrived in early 1948. As far as could be observed, this unit widened the runway

e. A commercial dakota plane flying on the 205304-THILIST line landed and took off every day.

7. disassembly and Shipping of Arcraft:

a. The produced alroraft, some of which were flight-tested, were disassembled by a special detail (four or five well trainer and aquipped men) at the leading ramp. All sincreft parts were packed in solid boxes manufactured in the plant.

b. The sings, tail assembly, power plant, and radio sets were disassembled. The conservation measures were observed. It took from two to three hours to disassemble one plane. The disassembled planes were subject by rail in trains of about 30 cars, cash of which was leaded with one box. The trains left in the direction of BAKU.

3. Detailed Observations:

a. The wasts ratio in the lant was very high, particularly in the tail unit section. It is possible that the wasts ratio was so high only during the pariod when the new experimental aircraft models were produced.(x) The scrap was malted and cast into aluminium injots in the factory foundry. No details are available concerning the further atilization of these impots.

b. Jork was performed on an assembly line basis; modeled after the method formerly used in permany ("Taktverfahren"-timed automatic advance of assembly line), 25 to 30 fuselages were simultaneously being assembled on the line. The final essembly line was located between the fuselage and airframe assembly lines.

- c. There was first-class flush-riveting on outer skin; no creeks or dents were observed; after-treatment with smoothers was not necessary. After being varnished, the aircraft were painted bluish-green. (x)
- d. The power plant was suspended at four points. (xx)
- e. There were difficulties in the refining treatment of materials. In early 1943 new amnealing and refinement baths were installed. (x)
- f. Insulapin, of shest notal thropresented problems, but those were overcome. (x)

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	g. The designing bureaus were well and modernly equipped. Technical literature and the most modern working meterial from all countries were available.	
9.	Personal Experiences:	
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		25X1
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 (3	Other Observations:	
LV»		
	Searchlight practice and both AAA and rtillery firing were frequently observed in the vicinity of the airfield. No details are available.	
11.	In a de Zone procestin, camp	25X1
4.1 ·	I that under round han are were located at the Ulf-	
	field near RUCAVI. The eircraft had arrived there by rail	. •
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	Jomment:	25X1
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#1	* b. The reported labor force of the day sairt (2,500 to	25X1
	anyaning the same neriod of observation.	
	The state of the s	
	full day shirt, only partial shifts with a considerably shaller work force worked in some plant eactions.	
	the control in June 2 1947, of countrol personnel from	the
	former siebel Aircraft Flant or of other deforted Jorman personnel was not observed; so these were possibly trans-	
	ferred to some other plant.	
特体	* c. The only unanimous statement in all reports received of	n
	the conventional fighter previously produced in the plant is that the landing year was retracted ellowise into the	
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	extensive this type of aircraft was equipped ancertainty as to wester this type of aircraft was equipped ancertainty as to we there is the type of aircraft was equipped and the type of	ed
	was matted on in-line on the can be explained only by the	
	escuption that this type represents a new veries of the	
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ø	d. The information on the output of the plant explains, to cortain extent the previously obtained contradictory information on the actual output and the plant capacity. the production of the single-seat Yak-15 with	25X1
	standard landing gear and of the two-sept trainer type equipped with nose wheel, which replaced the single-seat type (production: 300 to 400). The utilization of the two-seat version as a night fighter was considered impossible, since it was not provided with dipoles, mountinfor dipoles, or auxiliary tanks.	ខេន
ØØ	e. The statement that only two or three planes of the daily production were flight tested at the factory airfield whereas, the bulk of the produced aircraft were ship away in boxes without any prior acceptance flights, was make in a very definite manner. Institute the procedure with the greatest surprise it. They confirmed his observation. The same procedure was previously reported for the period from June 1946 to rebruary 1947.	ide 25X1 it
ØØØ	f. No definite information is available whether these aircraft were stockpiled; on the one hand, no conservation measures were observed; on the other hand, the return of empty transport boxes was not noticed throughout reported period. This question may possibly be clarified by the statements made by a Jerman Pd large	
	boxes here unloaded near RUSEAVI, where underground air-craft depots are allegedly located. The atockpiling of such fighter trainers over a prolonged period is considerated by the consid	
(x)	g. The statements on the high seres ratio and the first class fluen riveting some to be contradictory. Asked for an explanation of this,	or nt- ncet ner

- new annealing and refining boths, including an anodic both.
- (xx) h. The attached two sactohis were discussed in detail. limbilited that the elapension of the power plant and the unfaired unlable nose knowl set forward of the air intake (see Annex 2) were correctly observed by him, but this statement is believed to be in error because the presence of cowlings for the cutroctable nose wheel can be espaned with containty, since there would otherwise be a major disturbance in the air flow during the extension or retraction of the landing geore and the absence of an sussime on the similanger fighter sooms questionable.

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(xxx) i. The armoment with four machine guns and two cannon seems to be too heavy for a trainer type.

According to most former reports, only two machine guns and two cannon were observed.

1. Single-Seat Turbo-det Fighter Obescred at the Factory Field Three Liles East of Aircraft Flant No.31 in TELLISI.

2. Two-seat Purbo-Jot Aircraft Observed at the Plotory Field Three Liles Last of Aircraft Plant No.31 in TBIMISI.

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